

DRAFT Data Assessment Team (DAT) Conference Call Notes
02/04/2016 at 11:00 a.m.

Participants: Barb Byrne (NMFS), Geir Aasen, Trishelle Morris (DFW), Rhiannon Mulligan, and Loi Tran (DWR) Leigh Bartoo (FWS), Dave Fullerton (MWD), Lucinda Shih (CCWD)

Sacramento River Fish Monitoring update provided by Rhiannon Mulligan (DWR):

Preliminary Rotary Screw Trap (RST) Report				
Species*	FWS Red Bluff Diversion Dam RST (Estimated Passage)	Glenn-Colusa Irrigation District (GCID) RST (Catch)	DFW Tisdale Weir RST (Catch)	DFW Knights Landing RST (Catch)
Date	01/15/2016- 01/28/2016	01/28/16-02/03/16	01/27/2016- 02/02/2016	01/25/2016- 02/01/2016
CHNF	14,413,645	111	507	2,522
CHNLF	145	1		
CHNW	11,471	12	1	3
CHNS	10,372		1	5
Ad-Clipped CHN	Not Reported	6		
SH	103	13		2
Ad-Clipped SH	Not Reported			14
GST	Not Reported		Not Reported	Not Reported
*Chinook race based on length (Frank Fisher model); CHNF=Fall run, CHNLF=Late-fall run, CHNW=Winter run, CHNS= Spring run, SH = Steelhead, GST= Green Sturgeon. Species are unmarked unless noted as adipose-fin clipped (ad-clipped). Data subject to revision.				

Tisdale-sampling at half cone since 1/19
Knights Landing- sampling at half cone since 1/19

Graphical summaries of the monitoring data collected at the Sacramento River and at other locations can be found at <http://www.water.ca.gov/swp/operationscontrol/calfed/calfedmonitoring.cfm>. In addition, the biweekly passage reports of juvenile salmonids sampled at the Red Bluff Diversion Dam are available at http://www.fws.gov/redbluff/rbdd_biweekly.aspx.

Delta Fish Monitoring update provided by Jon Speegle (FWS) via DAT reflector:

Preliminary FWS Trawl and Seine Catch Report from 01/24/16 to 01/30/16				
Species*	Beach Seines	Mossdale Trawl	Sacramento Trawl	Chippis Island Trawl
CHNF	1,996	1	94	1
CHNLF				
CHNW	1			2
CHNS	8		2	
Ad-Clipped CHN	1			3
SH				
Ad-Clipped SH	1		3	3
DSM	1			
LFS				
SPLT				2

*Chinook race based on length (Frank Fisher model); CHNF=Fall run, CHNLF=Late-fall run, CHNW=Winter run, CHNS= Spring run, SH = Steelhead, DSM=Delta Smelt, LFS=Longfin Smelt, SPLT = Splittail. Species are unmarked unless noted as adipose-fin clipped (ad-clipped). Data subject to revision.

Prisoners Point/Site #902 Trawls, 46 CHNF, 4 RBTC, & 10 DSM

Information about the Delta fish monitoring data from FWS can be found at <http://www.fws.gov/stockton/jfmp/>.

Salvage Monitoring update provided by Geir Aasen (DFW):

Preliminary DFW Salvage Report for Salmonids from 01/25/16 to 01/31/16								
Species	Central Valley Project (CVP)				State Water Project (SWP)			
	Adipose-Fin Clipped (Ad-Clipped)		Non-Adipose Fin Clipped (Non-Clipped)		Adipose-Fin Clipped (Ad-Clipped)		Non-Adipose Fin Clipped (Non-Clipped)	
	Salvage	Loss	Salvage	Loss	Salvage	Loss	Salvage	Loss
CHNF			16	12				
Total to Date			24	17	1	4	4	18
CHNLF	8	6			4	18		
Total to Date	32	26	8	7	61	272	36	159
CHNW	12	10			19	85	2	9
Total to Date	66	52	12	9	92	417	6	26
CHNS								
Total to Date								
CHNU								
Total to Date								
SH	12				64			
Total to Date	40		4		128		4	

-Chinook race based on length (Delta model); CHNF=Fall run, CHNLF=Late-fall run, CHNW=Winter run, CHNS=Spring run, CHNU= Unknown race (Chinook greater than the length-at-date criteria or fork length not measured), SH =Steelhead.
 -Salvage and loss estimates are rounded to the nearest whole fish.
 -Documentation on how to calculate salvage and Chinook loss can be found at <ftp://ftp.delta.dfg.ca.gov/salvage/Salmon%20Loss%20Estimation/>.
 -Steelhead loss: SWP steelhead loss = salvage x 4.33 and CVP steelhead loss = salvage x 0.68.
 -Total to date is the total since 10/1/14 (the start of water year 2015).

-Data subject to revision.

Notes:

1/30- Not much has changed. There are a few fall run Chinook and a few clipped and non-clipped Steelhead

02/01- SWP/CVP Steelhead prelim loss density of 2.81 fish/TAF

02/02- SWP/CVP Steelhead prelim loss density of 0.42 fish/TAF

And SWP/CVP older juvenile Chinook prelim loss density of 1.41 fish/TAF

Preliminary DFW Salvage Report for Smelt and Other Species from 01/25/16 to 01/31/16				
Species	CVP		SWP	
	Salvage	Total to Date	Salvage	Total to Date
DSM		4		
LFS				
SPLT	4	16	4	14
GST		4		
WST				
Notes: -DSM=Delta Smelt, LFS=Longfin Smelt, SPLT=Splittail, GST=Green Sturgeon, WST=White Sturgeon. -Salvage estimates are rounded to the nearest whole fish. -Total to date is the total since 10/1/13 (the start of water year 2014). -Data subject to revision.				

Smelt Monitoring Update provided by Trishelle Morris (DFW):

Smelt Larva Survey #3 is in the field this week. Results should be posted tomorrow.

Spring Kodiak Trawl is scheduled to be in the field February 8th-11th, 2016.

(<https://www.wildlife.ca.gov/Conservation/Delta/Smelt-Larva-Survey>)

Smelt Working Group Update provided by Leigh Bartoo FWS):

The Working Group reviewed current Delta Smelt distribution, salvage data, and Delta conditions.

The Working Group described the risk of entrainment under the Service-provided advice framework.

Under this framework the relative risk of entrainment for OMR flow ranges is discussed and assessed.

For the current week, the risk of entrainment of delta smelt for each of the flow ranges is characterized as follows:

- -1250 to -2000 cfs has a medium risk of entrainment,
- -2000 to -3500 cfs has a high risk of entrainment,
- -3500 to -5000 cfs has a high risk of entrainment.

A reduction in the risk levels described above would be expected if turbidity levels drop in the Old River corridor and south Delta, and other conditions remain similar. Once turbidity decreases to 8 NTU or less in these areas, the risk of entrainment of Delta Smelt for each of the flow ranges would be as follows:

- -1250 to -2000 cfs has a low risk of entrainment,
- -2000 to -3500 cfs has a medium risk of entrainment,
- -3500 to -5000 cfs has a high risk of entrainment.

The Working Group will continue to monitor Delta Smelt survey and salvage data and Delta conditions,

and will meet again on Monday, February 8, 2016 at 10 am.

The Smelt Working Group notes and FWS determinations are posted at
http://www.fws.gov/sfbaydelta/cvp-swp/smelt_working_group.cfm.

Delta Operations for Salmonids and Sturgeon (DOSS) Working Group Update provided by Barb Byrne (NMFS)

Winter-run JPE:

NMFS issued the Juvenile Production Estimate (JPE) of Winter-run Chinook; the 1/28/16 letter is posted under "Biological Opinion Actions"
at: http://www.westcoast.fisheries.noaa.gov/central_valley/water_operations/

DOSS update:

- DOSS met Tuesday, 2/2/16, and provided no advice.
- DOSS notes are posted
at: http://www.westcoast.fisheries.noaa.gov/central_valley/water_operations/ocapwy2016.html
- RPA Implementation
 - IV.1.2 (DCC ops): DCC gates have been closed since 12/15/15
 - IV.2.3 (OMR management based on salvage triggers):
 - No triggers exceeded over past week
 - calendar-based OMR limit of -5,000 cfs is in effect (but not controlling exports).
- SPECIAL TOPICS
 - OMR Index Equation
 - DWR mentioned discussions regarding the potential removal of Rock Slough diversions from the CCWD term in the OMR Index equation
 - Juvenile production estimate (JPE) for Winter-run Chinook (WR)
 - **JPE=101,716** (# WR estimated to enter the Delta)
 - **Incidental take limit for wild WR = 1,017** (1% of the JPE, using genetic race assignment)
 - Reclamation has project with U. Washington to synthesize monitoring data
 - Josh Israel invited suggestions
 - When ready, will share draft tool for DOSS feedback
- Fish Monitoring Highlights
 - **Tisdale and Knights Landing RSTs** experienced another peak of flow (Tisdale & KL), turbidity (Tisdale), and catch (Tisdale) over the weekend; after a drop in flows/turbidities/catch mid-week last week.
 - **Delta sampling** shows high FR catch in the beach seines (659 at Discovery Park on Friday, compared to catches usually <100), Sacramento Trawl, and also at Prisoner's Point.

- **Early Warning sampling shift:** No sampling at Jersey point since 1/18; for the past two weeks early warning surveys have been alternating between Prisoners Point and "Station 902" (on Old River a bit south of Franks Tract).
- **Salvage:** Over past week, had low but consistent salvage of salmonids (mostly clipped) at the export facilities.
- Fish Distribution Estimates
 - Estimate of young-of-year **winter-run Chinook** distribution: 5-10% upstream, 90-95% in the Delta, 0-5% exited the Delta
 - Estimate of young-of-year **spring-run Chinook** distribution: 35-45%% upstream, 55-65% in the Delta, 0-5% exited the Delta
- Entrainment risks (primarily to Winter-run and Spring-run Chinook)
 - Overall Entrainment into **Interior Delta:** MEDIUM
 - Overall Entrainment into **CVP/SWP Export Facilities:**
 - OMR -2,500 cfs to -3,500 cfs: LOW-MEDIUM
 - OMR -3,500 cfs to -5,000 cfs: MEDIUM

Full DOSS notes posted at:

http://www.westcoast.fisheries.noaa.gov/central_valley/water_operations/ocapwy2016.html

Operations update provided by Loi Tran (DWR)

Preliminary Summary for 02/04/2016			
SWP		CVP	
Clifton Court Inflow (cfs)	1,500	Jones Pumping Plant *(cfs)	1,600
SWP San Luis Reservoir Share (TAF) as of Midnight	509	CVP San Luis Reservoir Share (TAF) as of Midnight	201
San Luis Reservoir Total (TAF) as of Midnight	710	American – Nimbus Reservoir Releases (cfs)	800
Feather – Oroville Reservoir Releases (cfs)	950	Sacramento – Keswick Reservoir Releases (cfs)	3,250
		Stanislaus-Goodwin Reservoir Releases (cfs)	200
DELTA OPERATIONS			
Outflow (cfs)	~36,400	Delta Cross Channel (DCC) Gates	closed
Total Delta Inflow (cfs)	~40,297	1 day average (cfs)	-2253
X2 (km)	=62	5 day average (cfs)	-3021
Export/Inflow (%)	6.7% (14-day average)	14 day average (Cfs)	-2885

Delta Conditions: Excess

Controlling Factor: OMR (-2500)

*1750cfs by tomorrow.

A summary of daily operations can also be viewed at

<http://www.water.ca.gov/swp/operationscontrol/docs/delta/deltaops.pdf>.

Next Conference Call:

Next DAT call February 11th, 2016 at 11am.

Final DAT notes can be viewed at

<http://www.water.ca.gov/swp/operationscontrol/calfed/calfeddat.cfm>